

SPEAKER BIOGRAPHIES

LTG Keith Alexander

Lieutenant General Keith B. Alexander, USA, is the Director, National Security Agency/Chief, Central Security Service (NSA/CSS), Fort George G. Meade, MD. As the Director of NSA and Chief of CSS, he is responsible for a combat support agency of the Department of Defense with military and civilian personnel stationed worldwide. LTG Alexander holds a Bachelor of Science degree from the U.S. Military Academy and a Master of Science degree in Business Administration from Boston University. He holds a Master of Science degree in Systems Technology (Electronic Warfare) and a Master of Science degree in Physics from the Naval Post Graduate School. He also holds a Master of Science degree in National Security Strategy from the National Defense University.

Mr. Michael Assante

Michael J. Assante is Vice President and Chief Security Officer of the North American Electric Reliability Corporation (NERC), effective August, 2008. Mr. Assante comes to NERC from the Department of Energy's Idaho National Labs (INL) as a widely recognized expert and visionary in the fields of security and infrastructure protection. Mr. Assante also presently serves as a sitting member of the Commission on Cyber Security for the 44th Presidency of the United States. Prior to assuming his strategic leadership position at INL, Mr. Assante was a vice president and Chief Security Officer at American Electric Power, one of the largest generators of electric power in the U.S.

Rich Baich

Rich Baich is a respected industry leader for domestic and global enterprise security and risk solutions. He has led multi-national teams in both the private and public sector, advising global organizations to effectively and efficiently balance risk, technology and data management decisions with data protection, regulatory compliance issues, privacy and security controls. Rich's operational experience includes designing, assessing and delivering FCRA violation remediation strategy. He currently serves as the leader for the financial services Security & Privacy practice in the Southeast and Federal Government. As former Chief Information Security Officer (CISO), Rich held enterprise-wide responsibility for the architecture, design, risk, business continuity and implementation of information and technology security. He also served as the organization's official executive representative to internal and external customers, audit, regulatory and law enforcement on information security matters. Rich's security leadership roles include Naval Information Warfare Officer for the National Security Agency (NSA), Sr. Director Professional Services at Network Associates (now McAfee) and after 9/11, as Special Assistant to Deputy Director for the National Infrastructure Protection Center (NIPC) at the Federal Bureau of Investigation (FBI). He is currently serving as the Commanding Officer of the United States Naval Reserve Navy Information Operations Command in Denver, Colorado. Prior assignments include tours within the Real Time Military Analysis Center, the Reserve Armed Forces Threat

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Center, the Center for Information Dominance and the Information Operations Technology Center (IOTC). In 2005, Rich authored "Winning as a CISO", a leadership sourcebook for security executives. He received the "Information Security Executive of the Year in Georgia" award in 2004 for his security and pioneering leadership. He is currently on the Board of Directors for NPower Charlotte Region, serves as an advisor for Congresswomen Myrick's Homeland Security Taskforce, and recently was selected as an advisor for the President's Commission on Cybersecurity.

Dr. Charles Barry

Mr. Charles Barry has been associated with NDU since 1993 as a military analyst specializing in transatlantic relations, defense technologies, military strategy, and force structure. Mr. Barry has been a qualified military strategist for more than 20 years and is considered an expert on military strategy and transatlantic relations. His areas of concentration include transatlantic defense industrial cooperation/consolidation, NATO transformation, and the EU's policies on security and defense. At present he is conducting research on organizational applications of information systems in the military and on the force structure of the U.S. Army. Mr. Barry completed a career in the United States Army, including operational leadership positions and nine years as a high level strategic planner in Europe and Washington. His military service spanned assignments in Europe, Asia and the United States. Mr. Barry is currently studying for a doctoral degree in Information Resource Management at the University of Baltimore. Mr. Barry writes, teaches and speaks on military topics, U.S.-European affairs, and operational-strategic solution concepts for both the public and private sectors. His papers on solutions to the conflict in Bosnia have been presented in Washington, Stockholm, London, Paris, Madrid, Moscow, and at Harvard University. In 1997 he presented papers on the implications of the Balkans conflicts for NATO crisis response in Madrid, Washington, Athens and Paris. More recently he co-authored an article in Current History entitled, "Completing the Transatlantic Bargain: The United States and European Security," in March 2001. His books include The Search for Peace in Europe (1993), Security Architecture for Europe (1995), and Reforging the Trans-Atlantic Relationship (1996). His latest book, Accelerating on the Run - Business Improvement from the War Room to the Boardroom, published in August 1998, deals with military strategy, e-business management concepts, and best business practices from American industry. His most recent publications include a chapter on U.S. interoperability (in Transforming America's Military, NDU Press), a Defense Horizons paper on the future of Unmanned Combat Aerial Vehicles (UCAV) and a Defense Horizons on Transforming NATO Command and Control.

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Richard Beard

Richard C. Beard is currently Senior Deputy United States Coordinator for International Communications and Information Policy in the Department of State. Mr. Beard came to the Department of State in 1988 from the National Telecommunications and Information Administration (NTIA), Department of Commerce, where he served as Associate Administrator for International Affairs. Mr. Beard has extensive experience in international telecommunication policy matters involving multilateral and bilateral forums. In his current position, he manages the State Department's activities across a broad range of international telecommunications and information policy issues, including those arising in the International Telecommunication Union (ITU), the Organization for Economic Cooperation and Development (OECD) and Asia-Pacific Economic Cooperation (APEC). Mr. Beard was founder and long-standing Chairman of the Working Group on Telecommunications within the APEC process, which involves 21 Pacific basin economies. Mr. Beard is a former chairman of the OECD's Committee for Information, Computer and Communications Policy (ICCP). He serves as the United States' representative to the ITU's Council, which is the governing body of the ITU between Plenipotentiaries. Mr. Beard served the Chairman of the 2002 session of the ITU Council, the first time the U.S. has been elected to that position. Mr. Beard served as Chairman of the U.S. delegation to the World Radiocommunications Conference in 1993, and he has served as Vice-Chairman of the U.S. delegation to the 1994, 1998, and 2002 ITU Plenipotentiary Conferences. He has also served as Vice-Chairman of U.S. delegations to the International Telecommunications Satellite Organization (INTELSAT) Assembly of Parties. Mr. Beard has led numerous bilateral negotiations with countries in Asia and Europe leading to more liberalized uses of international private leased circuits. Mr. Beard has received awards from the Departments of State and Commerce for distinguished service. He entered government service from the private sector where he held positions with the Corporate and Strategic Planning Groups of AT&T. He holds a Ph.D. from the University of Colorado.

Dr. Hans Binnendijk

Hans Binnendijk is currently the Theodore Roosevelt Chair in National Security Policy and Founding Director of the Center for Technology and National Security Policy at the National Defense University. He previously served on the National Security Council as Special Assistant to the President and Senior Director for Defense Policy and Arms Control (1999-2001). From 1994 to 1999, Dr. Binnendijk was Director of the Institute for National Strategic Studies at the National Defense University. Prior to that, he was Principal Deputy Director and Acting Director of the State Department's Policy Planning Staff (1993-1994). He also served as Deputy Staff Director and Legislative Director of the Senate Foreign Relations Committee (1980-1985). He has received numerous awards for his government service, including two Distinguished Public Service Awards and a Superior Service Award. In academia, Dr. Binnendijk was Director of the Institute for the Study of Diplomacy at

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Georgetown University, where he was also the Marshall B. Coyne Research Professor at the Edmund A. Walsh School of Foreign Service (1991-1993). He was Deputy Director and Director of Studies at London's International Institute for Strategic Studies and Editor of Survival from 1988-1991. He is author or co-author of more than 100 articles, editorials and reports. His most recent book is *Seeing the Elephant: The U.S. Role in Global Security* (Potomac Books: 2006). Dr. Binnendijk is a 1968 graduate of the University of Pennsylvania. He received his M.A.L.D. and his Ph.D. in international relations from the Fletcher School of Law and Diplomacy, Tufts University.

General James Cartwright

General Cartwright serves as the eighth Vice Chairman of the Joint Chiefs of Staff. In this capacity, he is a member of the Joint Chiefs of Staff and the Nation's second highest ranking military officer. As Vice Chairman, General Cartwright chairs the Joint Requirements Oversight Council, Co-Chairs the Defense Acquisition Board, and serves as a member of the National Security Council Deputies Committee, the Nuclear Weapons Council and the Missile Defense Executive Board. In addition, he Co-Chairs the Deputies Advisory Working Group, which provides advice to the Deputy Secretary of Defense Gordon England on resourcing and other high level departmental business issues. General Cartwright was commissioned a second lieutenant in the Marine Corps in November 1971. He completed Naval Flight Officer training in April 1973 and graduated from Naval Aviator training in January 1977. He has operational assignments as an NFO in the F-4, and as a pilot in the F-4, OA-4, and F/A-18. He is a distinguished graduate of the Air Command and Staff College at Maxwell AFB, received his Master of Arts in National Security and Strategic Studies from the Naval War College, Newport, Rhode Island and completed a fellowship with Massachusetts Institute of Technology. General Cartwright's command assignments include: Commander, United States Strategic Command (2004-2007); Commanding General, First Marine Aircraft Wing (2000-2002); Deputy Commanding General, Marine Forces Atlantic (1999-2000). General Cartwright's joint staff assignments include: Director for Force Structure, Resources and Assessment, J-8 the Joint Staff (2002-2004); Deputy Director for Force Structure, Requirements, J-8 the Joint Staff (1996-1999).

Mr. Jim Christy

Jim Christy is a retired special agent who specialized in cyber crime investigations and digital evidence for over 23 years and 37 years of federal service. Jim returned to the federal government as an IPA and is currently the Director of Futures Exploration for the Defense Cyber Crime Center (DC3) and was profiled in Wired Magazine in January 2007. From Nov 03 – Nov 06, Supervisory Special Agent Jim Christy was the Director of the Defense Cyber Crime Institute (DCCI), DC3. The DCCI is responsible for the research & development and test & evaluation of forensic and investigative tools for the DoD Law Enforcement and

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Counterintelligence organizations. The Institute is also charged with intelligence analysis, outreach, and policy for DC3. Jim is a retired Computer Crime Investigator in the Air Force Office of Special Investigations. From 17 Sep 01 – 1 Nov 03, Jim was the Deputy Director/Director of Operations, Defense Computer Forensics Lab, Defense Cyber Crime Center. As the Dir of Ops for the DCFL he managed four sections with over 40 computer forensic examiners that supported Major Crimes & Safety, Counterintelligence and Counterterrorism, as well as Intrusions and Information Assurance cases for the Department of Defense. From May 98 – Sep 01, Jim was assigned to the Defense-wide Information Assurance Program, Assistant Secretary of Defense for Command, Control Communications and Intelligence (ASDC3I) as the Law Enforcement & Counterintelligence Coordinator and Infrastructure Protection Liaison. He served as the DoD Representative to the President's Infrastructure Protection Task Force (IPTF) from Sep 96 – May 98. Prior to the IPTF, Jim was detailed to Senator Sam Nunn's staff on the Senate Permanent Subcommittee on Investigations as a Congressional Fellow, Jan - Aug 96. From 1986-1998, Jim was the Director of Computer Crime Investigations, and Information Warfare for AFOSI and established the first computer forensic lab in DOD which is the DoD Computer Forensic Lab.

BG John Davis

Brigadier General John A. Davis, United States Army, is the Deputy Command, Joint Task Force-Global Network Operations. In this capacity, he provides direct support to United States Strategic Command in defense of the Global Information Grid. A graduate of the United States Military Academy, BG Davis entered active duty as an Infantry Officer in the 82d Airborne Division at Fort Bragg and attended the Army Command and General Staff College and Infantry Officer Advance Course before earning a Master of Strategic Studies from the U.S. Army War College. BG Davis saw combat duty in Grenada during Operation URGENT FURY, in Panama supporting Operation JUST CAUSE, and in Southwest Asia in support of Operation ENDURING FREEDOM. He has been assigned to a variety of command, troop, and staff officer positions, including Headquarters Company Commander, Berlin Brigade; Ranger Rifle Company Commander, 75th Ranger Regiment; Commander 1st Information Operations Command (Land); Airborne Rifle Platoon Leader, Mortar Platoon Leader and Company Executive Officer, 82d Airborne Division; Division Long Range Reconnaissance Platoon Leader, 82d Airborne; Battalion Adjutant, United Nations Command Security Forces - Joint Security Area in Panmunjom; Division Secretary General Staff and Executive Officer, 82d Airborne Division; Aide de Camp to the Commanding General, XVIII Airborne Corps, Fort Bragg; Ground Operations Crisis Action Planner and Information Operations Planner, United States Atlantic Command, Norfolk, VA; Information Operations Division Chief, Joint Special Operations Command, Fort Bragg; and Deputy Director for Information Operations, U.S. Special Operations Command, Tampa, FL. A master parachutist with a combat jump in Panama, BG Davis has also earned the Combat Infantryman Badge, Expert Infantryman Badge, Pathfinder Badge, and Ranger Tab.

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Maeve Dion

Maeve Dion is Program Manager for Cyber and Education at the Center for Infrastructure Protection (CIP), at George Mason University School of Law. Her work focuses on legal, economic, policy, and educational issues relating to critical infrastructure protection, with an emphasis on cyber and telecommunications. Currently Maeve is an invited subject matter expert to two task forces of the President's National Security Telecommunications Advisory Committee. The CyberSecurity Collaboration Task Force contributed to the 60-day cyber security review, and is finalizing a report and recommendations regarding a 24/7, joint cyber/telecom, public-private capability for cyber incident detection, prevention, mitigation, and response. Maeve also supports NSTAC's standing Legislative & Regulatory Task Force. At CIP, Maeve is managing a project on the legal and policy aspects of international cyber conflict. She is also the program manager for CIP's educational programs, which currently include work with DHS on infrastructure protection programs in higher education, creation of a career development continuum for infrastructure protection professionals, and deployment of training in security risk management. Maeve's other areas of research include the national security concerns of foreign access to and control of critical infrastructure, and the relationships between military and civilian authorities regarding security and defense of critical infrastructures. She has authored several articles and reports, including the recent whitepaper Protection of "Critical Infrastructure" and Role of Investment Policies Relating to National Security which was commissioned by the Organisation for Economic Co-operation and Development (OECD); essays published in Selected Essays on State Open Government Law and Practice in a Post-9/11 World; and an ABA report chapter that was excerpted in the textbook Disasters and the Law: Katrina and Beyond. Maeve holds an honors B.A. in political science from Eckerd College, and a J.D. cum laude from George Mason University School of Law.

Major General Koen Gijsbers

Koen Gijsbers (1958) attended the Royal Military Academy in 1976. In 1980 he was commissioned into the Corps of Engineers. He initially commanded an armoured engineer platoon and then a field engineer company. He was assigned as a project manager at the Netherlands Infrastructure Directorate, before going to the General Staff Officers Course. As major and lieutenant colonel, he was assigned to the Army Staff at several positions in policy and plans departments and instructed strategy and joint operational warfare at the Netherlands Defence College. He took command of 11 Armoured Engineer Battalion in 1997. After promotion to colonel, he was deployed to Kosovo in 1999, directly after KFOR moved into Kosovo, as commander of a regimental task force consisting of infantry,

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engineers and logistical units, delivering security and humanitarian aid to the suffering local population. Subsequently, he was appointed chief of the Policy and Plans department of the Netherlands Training Command and chief of the General Policy Department of the Commander in Chief Royal Netherlands Army. In 2003 he took command of 11 Air Maneuver Brigade (Air Assault). During his command, his units were deployed to Iraq and were part of NATO Response Force. Furthermore, he prepared units for deployment to Afghanistan, ISAF stage III, Congo and European Union Battle Group. Major General Gijbers holds a Master degree in Military Art and Science of the US Army Command and General Staff College (Ft. Leavenworth, Kansas).

Brenton Greene

Brent Greene joined Northrop Grumman as the Vice President for National Security Communications in early 2007 and is responsible for wireless public safety, national security communications, cyber security and critical infrastructure protection (CIP) initiatives. Mr. Greene is a Board member for ReliabilityFirst Corporation, one of the major regional reliability councils of NERC. In prior roles, he led the National Communications System (DHS/NCS) for over three years as its Director, including a major role in restoring Wall Street during 9/11 and implementing national security and emergency preparedness solutions for the nation's communications backbone. In this role, his agency was awarded a Joint Meritorious Unit Commendation by DOD. He led the Industry Executive Subcommittee of the President's National Security Telecommunications Advisory Committee (NSTAC). Earlier, he served as a Presidential Commissioner on the President's Commission for Critical Infrastructure Protection and was awarded the Secretary of Defense Medal for Outstanding Public Service. In a previous career, he rose to command two nuclear-powered fast-attack submarines.

The Honorable John Grimes

Mr. Grimes was nominated by President Bush on June 17, 2005 and sworn in as the Assistant Secretary of Defense for Networks and Information Integration (ASD NII) / Department of Defense Chief Information Officer (CIO) on November 14, 2005. Mr. Grimes has extensive technical and policy experience in telecommunications, information systems and the command and control fields. His public service includes five years on the White House National Security Council Staff as Director for National Security Telecommunications Policy, Director of Defense Command, Control and Communications Programs, and Senior Director White House Situation Support Staff from 1984 to 1990. Mr. Grimes served as Deputy Assistant Secretary of Defense for Defense-wide Command, Control and Communications and was the Deputy Assistant Secretary of Defense for Counterintelligence and Security Countermeasures from 1990 to 1994. As a member of the DoD senior executive service (SES), he held senior technical and staff positions with the

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National Communications System, Defense Communications Agency (predecessor to DISA), and the U.S. Army Communications Command following his military service in the U.S. Air Force. Mr. Grimes joined Raytheon Company in 1994 where he served as Vice President of Intelligence and Information Systems, Washington Operations, prior to retiring in November 2005. Mr. Grimes has served on four Defense Science Board (DSB) Task Forces. He was a member of the Industry Executive Subcommittee of the President's National Security Telecommunications Advisory Committee (NSTAC). A native of Frederick, Maryland, Mr. Grimes is a graduate of the University of Arizona and also holds a Master of Science Degree from Shippensburg University in Pennsylvania. He is a graduate of the U.S. Army War College, Carlisle Barracks, Pennsylvania; the Federal Executive Institute, Charlottesville, Virginia; and Harvard University's National and International Security Policy Program. He is the recipient of the American Institute of Aeronautics and Astronautics' (AIAA) Command, Control, Communications and Intelligence (C3I) Award among other public, military and Federal civil service awards to include two Presidential Rank awards.

Mr. Mark Hall

Mr. Mark Hall was appointed the Director, Information Assurance (IA) Policy and Strategy in July 2007. In this capacity, he is responsible for ensuring a secure DOD network architecture is designed and maintained through a variety of IA programs and initiatives supported by appropriate enterprise security policies. Mr. Hall is also the Director of the International Information Assurance Program (IIAP) for the United States Department of Defense (DoD), a position he has occupied since August 2005. Mr. Hall also serves as the DOD Co-chair to the National Cyber Response Coordination Group (NCRCG) and represents DOD interests in the principal inter-agency forum to discuss cyber security issues and respond to a cyber event of national significance. After graduating from the University of Maryland with a BA degree in International Relations he entered a 3-year DoD developmental program for information security. He was later assigned to the White House Communications Agency to provide information security (INFOSEC) support to Presidential communications. Subsequent to that assignment, Mr. Hall became a program manager responsible for developing and implementing anti-tamper technologies for integrated circuits; was selected to become an initial member and senior analyst for a new Information Operations group; designed and implemented a 24x7 Computer Network Defense watch desk and analytical cell, managed a division responsible for time-sensitive reporting and response, and was designated the Executive Assistant to the Chief of a Defensive Information Operations group. In addition to his degree from the University of Maryland, Mr. Hall received a Graduate Certificate from Johns Hopkins University in Telecommunications and Information Systems in 1998. Mr. Hall resides in Columbia, MD with his wife Yvonne and has three daughters.

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Dr. Rex Hughes

Dr. Rex Hughes directs the Cyber Security Project at The Royal Institute of International Affairs (Chatham House) in London. The Project was established in the fall of 2008 to engage senior decision makers in government and industry on critical aspects of global cyber security. In March of 2009 the project published a major report, Cyberspace and the National Security of the United Kingdom. On related subjects he advises senior business and government officials on both sides of the Atlantic. Whilst an undergraduate student at the Henry M. Jackson School of International Studies in Seattle, Hughes founded and directed the world's first multidisciplinary Internet Studies program at the University of Washington. There in partnership with the US Department of State and IBM-Lotus he led the development of iEnvoy™, the first secure 'diplomat-to-diplomat' Internet communications platform. Dr. Hughes is also a Senior Resident Member at Wolfson College, Cambridge, and a Research Associate of The Cambridge-MIT Institute.

Hon. Franklin D. Kramer

The Honorable Franklin Kramer was a Distinguished Research Fellow at the Center for Technology and National Security Policy. Mr Kramer was Assistant Secretary of Defense for International Security Affairs from March 1996 to February 2001, and Deputy Assistant Secretary for European and NATO Affairs from January 1996 to March 1996. He has also served as the Principal Deputy Assistant Secretary of Defense for International Security Affairs from 1979 to 1981, and as Special Assistant to the Assistant Secretary of Defense for International Security Affairs from 1977 to 1979. Mr. Kramer is the chairman of the board of the World Affairs Council of Washington, D.C.; chairman of the Committee on Asian and Global Security of the Atlantic Council and on the Executive Committee of the board; a Capstone Professor at George Washington University Elliott School of International Affairs; and on the board of directors and board of advisers of other organizations. Mr. Kramer has been a partner with the Washington, D.C. law firm of Shea and Gardner. Mr. Kramer received a B.A. cum laude from Yale University in 1967 and a J.D. magna cum laude from Harvard Law School in 1971.

Dr. Dan Kuehl

Dr. Kuehl is the Director of the Information Operations Concentration, a specialized curriculum on national security in the information age offered to selected senior students at the National Defense University. His courses concentrate on such issues as the information component of national power, information operations, cyberspace, and public diplomacy. He retired as a Lieutenant Colonel in 1994 after nearly 22 years active duty in the USAF. He holds a PhD in History from Duke University, where his dissertation focused on the Air Force's employment of electronic warfare in the decade after WW II. His publications

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include a wide range of academic and professional journals, and he has contributed to several books on airpower and information warfare, including the Cyberwar series from AFCEA, Information Operations by Potomac Press, and Cyberpower and National Security (pending from NDU Press). He is on the editorial boards of Joint Force Quarterly and the Journal of Information Warfare, is a member of the Public Diplomacy Council, the Information Operations Institute, and the Cyber Conflict Studies Association, was a member of the Defense Science Board team that wrote the 2004 report on Strategic Communication. He lectures internationally on the subject of information power, and his current research focuses on the relationship between the information age and national security.

Mr. Harold Kwalwasser

Harold Kwalwasser is an independent telecommunications consultant based in Washington, DC. He is the Chair of the US International Telecommunication Union Association, which is an organization of telecommunications-related companies and consultancies that have an interest in the operation of the International Telecommunication Union. Previously, Mr. Kwalwasser was Deputy General Counsel/Legal Counsel of the Department of Defense and General Counsel of the Los Angeles Unified School District. He practiced law for sixteen years with the Los Angeles law firm of Tuttle & Taylor. Mr. Kwalwasser holds a B.A. with High Honors from Swarthmore College, and a J.D. from Yale Law School, where he was an editor of the Yale Law Journal.

Dr. Itamara Lochard

Dr. Itamara V. Lochard is a Senior Researcher at the International Security Studies Program at The Fletcher School of Law and Diplomacy and is a certified mediator. Her research explores the nexus of irregular warfare, governance and non-state armed groups including insurgents, militias, terrorists, complex criminal organizations and organized gangs. She has examined the para-state function of informal groups most notably at the African studies department at the Center for Strategic and International Studies, the Institute of International Studies and the North American Forum at Stanford University. She presents her current findings at the U.S. Secretary of Defense Highlands Forum, regularly briefs U.S. combatant commanders and participated in the drafting of a white paper on national security issues for then-President Elect Obama at the Global Creative Leadership Summit. Dr. Lochard teaches graduate-level courses on peace and conflict studies as well as executive training programs for strategic non-violent action groups and mid-level career and military officers of the Kingdom of Saudi Arabia, Armenia and the United Arab Emirates. This year she conducted an Advanced Irregular Warfare pilot workshop at Special Operations Command and is a panelist at an upcoming NATO Center of Excellence workshop on strategic communication to combat terrorism. For several years, she was a contributing editor to the Journal of Public and International Affairs published jointly by Princeton University and the Association of Professional Schools of International Affairs. Dr. Lochard holds a B.S. in Foreign Service

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from Georgetown University, two Masters degrees from Stanford University in International Policy Studies and Latin American Studies, as well as an M.A. in Law and Diplomacy and a Ph.D. in International Relations from the Fletcher School. She received the Presidential Award for Citizenship and Public Service in 2007 at Tufts University.

COL Gary McAlum

Col Gary McAlum, USAF (ret.), is a Senior Manager in Deloitte's Federal Security & Privacy Services practice. He recently joined Deloitte after 25 years of distinguished military service. Throughout his career, he worked in a variety of staff and leadership positions in the information technology career field, with specific experience in telecommunications, deployable and satellite communications, network operations, and information security. During his last 4 years on active duty, Gary was on the frontline of DoD cybersecurity operations. He was a major figure in the establishment and evolution of the Defense Department's Joint Task Force Global Network Operations, serving first as the Director of Operations, and later as Chief of Staff. A recognized subject matter specialist on cybersecurity issues, he was frequently called upon to provide cyber threat insights to a wide variety of interagency forums, including the United States-China Economic and Security Review Commission and Congressional testimony. While at the JTF-GNO, he orchestrated a number of successful enterprise-wide security initiatives and he worked extensively with the U.S. intelligence community to improve information sharing processes and operationalize new intrusion detection technologies. He is currently a key member on a Cybersecurity Collaboration Task Force sponsored by the National Security Telecommunications Advisory Committee (NSTAC). This effort is developing Presidential-level recommendations for creating a joint public-private sector 24x7 incident response capability for our Nation.

Ms. Jenny Menna

Ms. Menna oversees the branches that include the Supply Chain Risk Management, Education & Workforce Development, Critical Infrastructure Protection Cyber Security, Control Systems, Outreach & Awareness and Cyber Exercise programs. Jenny Menna was previously the Director, Critical Infrastructure Protection – Cyber Security for the National Cyber Security Division. The Critical Infrastructure Protection Cyber Security (CIP CS) Program strengthens preparedness by partnering with the public and private sectors to improve the security of the Information Technology (IT) Sector and cyber security across the Nation's critical infrastructures. Prior to joining the Department of Homeland Security, Ms. Menna held a variety of program management roles for a large systems integration firm.

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Dr. James Mulvenon

James Mulvenon is Vice-President of DGI's Intelligence Division, as well as co-founder and Director of its Center for Intelligence Research and Analysis, where he has recruited and trained a team of nearly twenty Chinese, Arabic, Farsi, Pashto-Urdu and Korean linguist-analysts performing cutting-edge contract research and analysis for the US intelligence community. Previously, Dr. Mulvenon was a Political Scientist at the RAND Corporation in Washington, DC and Deputy Director of RAND's Center for Asia-Pacific Policy, where he built a team of ten Chinese linguist-analysts providing research for the Department of Defense and the US Government. A Chinese linguist and a specialist on the Chinese military, his current research focuses on Chinese C4ISR, defense research/development/acquisition organizations and policy, strategic weapons doctrines (computer network attack and nuclear warfare), patriotic hackers, military leadership and corruption, and the military and civilian implications of the information revolution in China. His book *Soldiers of Fortune* (Armonk, NY: M.E. Sharpe, 2001), examines the rise and fall of the Chinese military's multi-billion dollar business empire. Dr. Mulvenon received his Ph.D. in political science from the University of California, Los Angeles.

Dr. Michael Nelson

Michael Nelson is currently Visiting Professor of Internet Studies in Georgetown University's Communication, Culture, and Technology Program. Since January 2008, he has been doing research and teaching courses on "The Future of the Internet" and technology trends as well as consulting and speaking on Internet technology and policy. Nelson is a member of the Board of Trustees of the Internet2 university research consortium and a Trustee of the International Institute of Communication. In February, 2008, he became the chairman of the Information, Computing, and Communications Section of the American Association for the Advancement of Science (AAAS). Before joining the Georgetown faculty, Nelson was Director of Internet Technology and Strategy at IBM, where he managed a team helping define and implement IBM's Next Generation Internet strategy. Nelson was also Special Assistant for Information Technology at the White House Office of Science and Technology Policy where he worked with Vice President Al Gore on telecommunications policy, information technology, encryption and online privacy, electronic commerce, and information policy. Nelson has a B.S. in geology from Caltech, and a Ph.D. in geophysics from MIT.

Mr. William Nelson

Bill Nelson is the President and CEO of the Financial Services Information Sharing and Analysis Center (FS-ISAC). The FS-ISAC is a non-profit association dedicated to protecting financial services firms from physical and cyber attacks. Members within the FS-ISAC include organizations from banks, credit unions, securities firms and insurance companies. The FS-ISAC fulfills its mission through the dissemination of trusted and timely

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information regarding physical and cyber security risks to its membership. In 2009, Bill was elected Vice Chair of the ISAC Council, a group dedicated to sharing critical infrastructure information with the government and across the key sectors. Before joining the FS-ISAC, Bill was the Executive Vice President of NACHA, The Electronic Payments Association from 1988 to 2006. Bill oversaw the development of the ACH Network into one of the largest electronic payment systems in the world, processing nearly 14 billion payments in 2005. He also oversaw NACHA's rule-making, marketing, rules enforcement, education and government relations programs. Prior to joining NACHA, Bill held several treasury management and lending positions within the banking industry.

Mr. Terry Pudas

Terry Pudas is a Senior Research Fellow at CTNSP. His work is primarily focused on transformation and related national security issues. Prior to joining the Center, he served as the Deputy Assistant Secretary of Defense (acting), Forces Transformation and Resources in the office of the Under Secretary of Defense for Policy. In September of 2001 he was appointed as the Deputy Director of the newly created Secretary of Defense Force Transformation Office. He served as the Acting Director from January 2005 to October 2006. His primary role was to serve as advocate, focal point, and catalyst for the Department of Defense transformation efforts. Terry Pudas retired from the Navy in September, 2001 with over 32 years of service after serving as the Deputy and Executive Assistant to the President of the Naval War College in Newport, Rhode Island. He is a 1969 graduate of the University of Washington. In addition to his Bachelor of Science degree he holds a Master of Arts degree in National Security and Strategic Studies from the Naval War College and a Master of Arts degree in Management from Webster University. He also holds a diploma with honors in German language studies from the Defense Language Institute.

Mr. Andy Purdy

Andy Purdy is on the Executive Advisory Board of BigFix, Inc. and is a partner with the law firm of Allenbaugh Samini, LLP (www.alsalaw.com), in Washington, DC. He is also President of DRA Enterprises, Inc. (www.andypurdy.com), specializing in IT consulting, business development, and government relations. Mr. Purdy was a member of White House staff team that helped to draft the U.S. National Strategy to Secure Cyberspace (2003). At the Department of Homeland Security Mr. Purdy helped to form the National Cyber Security Division (NCSD) and the U.S. Computer Emergency Readiness Team (US-CERT), where he worked for three and a half years, the last two as the Acting Director of the NCSD and US-CERT. In 2006 he completed service as a Special Government Employee on the Defense Science Board Task Force on Mission Impact of Foreign Influence on DoD Software. Before joining the White House staff, Mr. Purdy served as Acting General Counsel, and long-time Chief Deputy General Counsel at the U.S. Sentencing Commission.

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Mr. Purdy served as an Assistant U.S. Attorney in the Eastern District of Pennsylvania, Senior Staff Counsel of the House Select Committee on Assassinations, Special Counsel to the House Committee on Standards of Official Conduct (Ethics), and Counsel to the Senate Impeachment Trial Committee (on the articles against Judge Walter Nixon). He also served for five years in network television news as an Associate Producer for NBC News magazines, and Producer for the CBS News broadcast NIGHTWATCH in Washington, D.C. Mr. Purdy is co-Director of the International Cyber Center being formed at George Mason University to promote strategic collaboration and information sharing to address major cyber issues such as CERT capacity building in the developing world, coordination of global cyber R&D efforts, and facilitating a global approach to cyber crime and other malicious activity.

LTG (Ret) Harry Raduege

Lieutenant General Harry D. Raduege, Jr. (USAF, Ret), is chairman of the Deloitte Center for Network Innovation, part of Deloitte LLP. He retired after serving 35 years in the U.S. military. He worked in the areas of technology, including telecommunications, space, information and network operations. He served more than 17 years in joint duty assignments. In his last position, he led Department of Defense netcentric operations as the director of the Defense Information Systems Agency. General Raduege was also appointed by the secretary of defense as the commander of the Joint Task Force for Global Network Operations, and as deputy commander for Global Network Operations and Defense for the U.S. Strategic Command. In these roles, he was the first commander assigned responsibility for directing the operation and defense of the Global Information Grid to ensure timely and secure netcentric capabilities across the entire department. He also served as the manager of the National Communications System and led the nation's efforts to prioritize the restoration of telecommunications throughout New York City and the Pentagon following the 9/11 attacks. General Raduege currently serves as a senior counselor to The Cohen Group; on the World Board of Governors of the United Services Organizations (USO); on the Executive Council of the Network Centric Operations Industry Consortium (NCOIC); as co-chair of the Center for Strategic and International Studies' (CSIS) Commission on Cyber Security for the 44th Presidency; as a member of the Center for U.S. Global Engagement's National Security Advisory Council and; on the Board of Directors and Executive Committee of Armed Forces Communications and Electronics Association (AFCEA) International. He also serves as an advisor to the Defense Science Board, and is a member of the Board of Trustees and chairs the Technology Committee for Capital University in Columbus, Ohio.

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Mark Rasch

Mark D. Rasch is an attorney and information security and privacy consultant in Bethesda, Maryland and a principal at secureITExperts.com, an information security and privacy consulting firm. He has worked with companies like TJX and other on data breach and data breach disclosure investigations, developed data breach disclosure policies and procedures for members of the Direct Marketing Association, and developed information security and incident response policies and plans for Fortune 50 companies and major financial institutions. He worked with VISA and MasterCard to help develop the original PCI (Payment Card Industry) guidelines for securing payment systems. He was formerly a Managing Director for Technology at FTI Consulting, the Senior Vice President and Chief Security Counsel for Solutionary, Inc. and Vice President for cyberlaw for Predictive Systems, Inc., where he provided computer security consulting and implementation services to the US government, intelligence and law enforcement agencies, and commercial enterprises. He is also a founding consultant to TruComply (now TruArx), specializing in PCI compliance solutions. For almost 10 years, Mr. Rasch lead the U.S. Department of Justice's efforts to investigate and prosecute computer and high-technology crimes, developing the DOJ initial guidelines on computer crime investigations, forensics and evidence gathering, and working with Congress to draft and revise computer crime and electronic evidence laws. He investigated and prosecuted the earliest computer crime cases including those of Kevin Poulsen, Kevin Mitnick and Robert T. Morris. Mr. Rasch has written and lectured extensively on computer crime, privacy, trademark, and trade secret issues on the Internet, and has been featured in USA Today, The New York Times, NBC Nightly News, ABC's Nightline, PBS' Technopolitics, CNBC, and NPR as an expert on computer law and policy. He has been an adjunct faculty member of the Washington College of Law at American University, where he taught courses in white-collar crime, at the George Washington University School of Engineering, where he taught courses in Law for Engineers, and at the Catholic University School of Law where he taught courses in Evidence Law. He is also a senior advisor and former faculty member at the University of Fairfax graduate and PhD program in information security where he has taught classes in computer incident response and forensics. He authors a monthly column on law and technology on Symantec's SecurityFocus website, and is occasional contributor to Wired Magazine and the Intellectual Property Law Journal.

Dr. Alexey Salnikov

Alexey Salnikov is Vice Director of the Institute of Information Security Issues at Lomonosov University in Moscow. From 1990 until 2003, he served in different positions in the KGB (Committee of State Security, USSR), FAPSI (Federal Agency of Government Communications and Information, Russian Federation) and FSB (Federal Security Service, Russian Federation). He retired with the rank of Colonel. Since 2003, he has been employed at Lomonosov University. He specializes in cyber security, cryptography, discreet mathematics, cyber terrorism, education on information security and the political dimensions of cyber security.

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Mr. Nandkumar Saravade

Mr. Nandkumar Saravade is currently working as General Manager, Financial Crime Prevention Department, in ICICI Bank Ltd. He spent over two decades with the Indian Police Service, culminating with a specialization in financial crimes and cyber security issues. He worked for nearly three years (2005-08) with the National Association of Software and Service Companies (NASSCOM), India's IT association, as Director, Cyber Security and Compliance, on secondment from the Government of India. In NASSCOM, Mr Saravade was heading NASSCOM's security initiatives and his work involved contributing to policy formulation, creating training facilities for cyber crime investigation & knowledge for law enforcement organisations, advising NASSCOM members on incident response management and organising mass awareness campaigns on cyber security. He handled NASSCOM's interaction with the Ministry of Information Technology, Government of India, on amendments to the Information Technology Act, the cyber security legislation which got enacted recently. He also set up NASSCOM's latest initiative, Data Security Council of India, a not-for-profit organisation for self regulation of the Indian IT industry on data protection practices. He holds a B.E. (Civil Engineering) from the Government College of Engineering, Aurangabad (1982) and an M.Tech. (Environmental Science and Engineering) from Indian Institute of Technology, Bombay (1984).

Dr. Gary Sharp

Dr. Walter Gary Sharp, Sr. serves as Senior Associate Deputy General Counsel for Intelligence at the U.S. Department of Defense where he is responsible for providing advice on international and national security law issues related to the worldwide activities and operations of the U.S. Armed Forces. A noted and published authority on national security law, conflict resolution, and cybersecurity, his current responsibilities include providing legal advice on international and U.S. domestic law issues related to the National Security Agency; Defense intelligence collection and surveillance; intelligence and counterintelligence; information security; cyberspace and cybersecurity; information operations; full spectrum computer network operations; critical infrastructure protection; terrorism and counterterrorism; law of war; rules of engagement; and deployment of forces. Prior to his appointment, Dr. Sharp served as Director of Legal Research for International, Comparative, and Foreign Law at the Law Library of Congress; Director of Global and Functional Affairs within the Bureau of Legislative Affairs at the Department of State; and Principal Information Security Engineer at The MITRE Corporation. A veteran of 25 years, Dr. Sharp retired as a decorated U.S. Marine Corps Lieutenant Colonel with prior enlisted service. Additionally, Dr. Sharp serves as an Adjunct Professor of Law at Georgetown University Law Center where he taught graduate-level seminars for 5 years on U.N. Peace Operations and International Peace and Security, and currently teaches a counterterrorism course entitled

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The Law of 24. Born in Corpus Christi, Texas, Dr. Sharp graduated from the U.S. Naval Academy with a Bachelor of Science in Aerospace Engineering. He also holds a Doctor of Jurisprudence from Texas Tech University School of Law, a Master of Laws in International and Comparative Law from Georgetown University Law Center, a Master of Laws in Military Law from The U.S. Army Judge Advocate General's School, and a Doctor of Juridical Science from the University of Virginia School of Law.

Ed Skoudis

Ed Skoudis is a founder and Senior Security Consultant with InGuardians, an information security consulting firm. Ed's expertise includes hacker attacks and defenses, the information security industry, and computer privacy issues, with over fifteen years experience in information security. Ed authored and regularly teaches the SANS courses "Hacker Techniques and Incident Handling," and "Network Penetration Testing and Ethical Hacking" helping over four thousand info sec pros each year on their way to becoming world-class incident handlers and penetration testers. Ed conducted a demonstration of hacker techniques against financial institutions for the United States Senate and is a frequent speaker on issues associated with hacker tools and defenses. He has published numerous articles on these topics, as well as the Prentice Hall best sellers, Counter Hack Reloaded and Malware: Fighting Malicious Code. A volunteer handler at the Internet Storm Center, Ed donates his time in helping organizations defend against attacks and keep up to date on the latest threats. Ed was also awarded five consecutive Microsoft MVP awards for Windows Server Security, and is an alumnus of the Honeynet Project. Previous to InGuardians, Ed served as a security consultant with International Network Services (INS), Global Integrity, Predictive Systems, SAIC, and Bell Communications Research (Bellcore).

Dr. Stuart Starr

Dr. Stuart H. Starr is a Senior Research Fellow at the Center for Technology and National Security Policy (CTNSP), National Defense University (NDU), Fort McNair, Washington, DC. Concurrently, he serves as President, Barcroft Research Institute (BRI), where he consults on Command and Control (C2) and Modeling and Simulation (M&S) issues (e.g., Institute for Defense Analyses (IDA)), serves on senior advisory boards to defense industry (e.g., Northrop Grumman), lectures to audiences world-wide on C2 and M&S issues, and participates on Blue Ribbon panels (e.g., member of the Army Science Board (ASB)). Prior to founding BRI, Dr. Starr was Director of Plans, The MITRE Corporation; Assistant Vice President for C3I Systems, M/A-COM Government Systems (currently a unit of SAIC); Director of Long Range Planning and Systems Evaluation, OASD(C3I), OSD (where he was member of the Senior Executive Service); and Senior Project Leader, IDA. Dr. Starr received a B.S. in Electrical Engineering from Columbia University in 1963. He received his M.S. and Ph.D. in Electrical Engineering from the University of Illinois in 1965 and 1969, respectively, and was a Fellow at MIT's Seminar XXI during 1989 - 1990. He is a member of Phi Beta

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Kappa and Pi Mu Epsilon, a former National Science Foundation Fellow, a Fellow of the Military Operations Research Society (MORS), an Associate Fellow of the American Institute for Aeronautics and Astronautics (AIAA), and a Senior Member of the IEEE. He was awarded the Clayton Thomas Medal for lifetime accomplishments in operations research by MORS in 2004. He has contributed to five books and published in excess of one hundred technical papers in the areas of C2, M&S, systems acquisition, and transportation. Dr. Starr is a member of the ASB, former chairman of the AIAA Technical Committee on Information and C2 Systems, former member of the Board of Directors of MORS, and a frequent participant on White House Task Forces, NATO panels, and summer studies sponsored by the Director of Net Assessment, OSD.

Ms. Eneken Tikk

Eneken Tikk is Head of the Cyber Defence Legal Expert Team at the Estonian Ministry of Defense; adviser on information law and legal policy to the Estonian Ministry of Justice; Legal Advisor to the NATO Cooperative Cyber Defence Centre of Excellence; and at the Estonian Informatics Centre (includes CERT), she is a legal expert on personal data, databases and public information law. Ms. Tikk is a lecturer on information law and legislative drafting at Tartu University, and she teaches a course on cyber defense legal frameworks for IT students at Tallinn Technical University. Ms. Tikk is currently working in various research programs, including the “Harmonization of Information Law and Legal Theoretical Approach to Regulation of Information” and the “Estonian Legal Space in Global Legal Space” programs sponsored by Tartu University/Estonian Science Foundation. She has participated in the Legal Expert Group on Cyber Defense (Estonian Ministry of Economy and Communications) and the Joint Analysis Group on Cyber Defense and National Cyber Strategy (Estonian Ministry of Defense). Ms. Tikk led preparations for the 2nd Data Protection Evaluation for Schengen Information System for the Estonian Ministry of Justice, and she has acted as the legal expert to the E-Health Information System for the Estonian Ministry of Social Affairs. For the UNESCO ICII Conference, she was the Delegate of UNESCO ENC, Mainz (2002) and Leiden (2005). Ms. Tikk is the founder of both the Estonian IT Law Association and the DLL IT and Media Law Institute, where she is also chairman. She is also chairman of the Estonian E-Business Society. Ms. Tikk’s publications and presentations include the textbook Information and Law (in Estonian); Legal and Policy Evaluation: International Coordination of Prosecution and Prevention of Cyber Terrorism, an article for NATO Defence Against Terrorism Centre of Excellence; Legal Lessons Learned from “Bronze Soldier” Cyber Attacks, a presentation prepared for the Finnish IT law Association and U.S. Naval Criminal Investigative Service; and an article on Applicability of the Census Case in the Estonian Personal Data Protection Law. Ms. Tikk received her B.A. in Law from the University of Tartu, her Magister Juris from the University of Tartu (with a focus on IT and Electronic Communications law), and she is currently pursuing a Ph.D. in Law at Tartu University, with a focus in Information Technology and Cyber Defense law.

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Dr. Paul Twomey

Dr. Paul Twomey is President/CEO of ICANN and previously held the position of Chair to ICANN's Government Advisory Committee. Before joining ICANN, he founded Argo P@cific, an international advisory and investment firm assisting companies in global Internet and technology businesses and strategic alliances. Previously, Dr. Twomey was founding CEO of the Australian National Office for the Information Economy and the Australian federal government's Special Adviser for the Information Economy and Technology. Dr. Twomey's career includes Executive General Manager of the Australian Trade Commission, Consultant with global management consultancy McKinsey & Company and a Research Officer with an international refugee organisation. Widely published in academic journals, Dr. Twomey has contributed to books on industry policy, foreign and defense policy, and development issues. He holds a Bachelor of Arts (First Class Honors) from the University of Queensland, a Master of Arts (Political Science and International Relations) from Pennsylvania State University and a PhD from the University of Cambridge.

Jody Westby, Esq.

Drawing upon a unique combination of more than twenty years of technical, legal, policy, and business experience, Jody Westby provides consulting and legal services to public and private sector clients around the world in the areas of privacy, security, cybercrime, e-discovery, and outsourcing risk management. She also serves as Adjunct Distinguished Fellow for Carnegie Mellon CyLab. Prior to forming Global Cyber Risk, Ms. Westby served as senior managing director for PricewaterhouseCoopers (PwC), specializing in outsourcing and cyber security/privacy issues. Before that, she was president of The Work-IT Group; launched In-Q-Tel, an IT venture capital/solutions company for the CIA; served as director of domestic policy for the U.S. Chamber of Commerce; and was senior fellow and director of IT studies for the Progress & Freedom Foundation. Earlier in her career, Ms. Westby practiced law with two top-tier New York firms and spent ten years in the computer industry specializing in database management systems. Ms. Westby is a member of the bars of the District of Columbia, Pennsylvania, and Colorado and serves as chair of the American Bar Association's Privacy and Computer Crime Committee. She is a member of the World Federation of Scientists' Permanent Monitoring Panel on Information Security and represents the ABA on the National Conference of Lawyers and Scientists. She is also a member of the United Nation's High Level Experts Group on Cyber Security. Ms. Westby is co-author and editor of four books on privacy, security, cybercrime, and enterprise security programs. She speaks globally and is the author of numerous articles. B.A., summa cum laude, University of Tulsa; J.D., magna cum laude, Georgetown University Law Center; Order of the Coif.

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Professor Jonathan Zittrain

Jonathan Zittrain is Professor of Law at Harvard Law School, where he co-founded its Berkman Center for Internet & Society. Previously he was Professor of Internet Governance and Regulation at Oxford University. His research interests include battles for control of digital property and content, cryptography, electronic privacy, the roles of intermediaries within Internet architecture, and the useful and unobtrusive deployment of technology in education. He performed the first large-scale tests of Internet filtering in China and Saudi Arabia in 2002, and now as part of the OpenNet Initiative he has co-edited a study of Internet filtering by national governments, "Access Denied: The Practice and Policy of Global Internet Filtering." His book "The Future of the Internet -- And How to Stop It" was just released from Yale University Press and Penguin UK -- and under a Creative Commons license. Papers may be found at <<http://www.jz.org>>.